

Title (en)

Rotor blade and structural system for coupling the rotor blade in a rotor hub

Title (de)

Rotorblatt und Struktursystem zur Kopplung des Rotorblatts an eine Rotornabe

Title (fr)

Pale de rotor et système structural pour le couplage de la pale de rotor dans un moyeu de rotor

Publication

EP 2848524 A1 20150318 (EN)

Application

EP 14153177 A 20140130

Priority

US 201314027733 A 20130916

Abstract (en)

The rotor hub (103) can include a rotor yoke (109); a grip member (119) having an inboard portion, an upper extension (137), and a lower extension (139); and a rotor blade (105) having a root end (705) coupled to the upper extension and the lower extension of the grip member with a first bolt (129), a second bolt (131), and a third bolt (133). The first bolt (129) is located on a spanwise axis of the rotor blade (105). The second bolt (131) is offset from the spanwise axis by a first chordwise distance (C1) and is offset from the first bolt (129) by a first spanwise distance (D1). The third bolt (133) is offset from the spanwise axis by a second chordwise distance (C2) and is offset from the first bolt (129) by a second spanwise distance.

IPC 8 full level

B64C 27/48 (2006.01)

CPC (source: EP US)

B64C 27/48 (2013.01 - EP US); **F01D 5/14** (2013.01 - US)

Citation (search report)

- [X1] EP 2457830 A1 20120530 - EUROCOPTER DEUTSCHLAND [DE]
- [X1] US 4373862 A 19830215 - FERRIS DONALD L, et al
- [X1] GB 655217 A 19510711 - UNITED AIRCRAFT CORP
- [X1] US 2684722 A 19540727 - PERRY JOHN A

Cited by

EP3446972A1; US10597143B2; EP3718885A1; US11155347B2; US11453486B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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